
Search History

DATE: Wednesday, February 04, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<u>L5</u>	L4 and clean\$	297	<u>L5</u>
<u>L4</u>	emulsion same azeotrop\$	1600	<u>L4</u>
<u>L3</u>	dipropyleneglycol with ((monopropyl ether) or (mono n propyl ether))	18	<u>L3</u>
<u>L2</u>	L1 and 134/\$.cccls.	70	<u>L2</u>
<u>L1</u>	(monopropyl ether) or (mono n propyl ether)	2129	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Term	Documents
CLEANS	0
CLEAN	582747
CLEANA	30
CLEANABFFITY	1
CLEANABFLITY	1
CLEANABFLITY:	1
CLEANABI	2
CLEANABIC	1
CLEANABIE	4
CLEANABIHTY	1
CLEANABIILTY	1
(L4 AND CLEANS\$).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	297

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US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L5

Refine Search

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Interrupt

WEST Search History

DATE: Wednesday, February 04, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	L13 and clean\$.ti.	19
<input type="checkbox"/>	L13	L12 and azeotrop\$ and \$emulsion	2248
<input type="checkbox"/>	L12	\$glycol with ether	148459
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	5415811.pn.	1
<input type="checkbox"/>	L10	5486314.pn.	1
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L9	6-146041	3
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L8	5271773.pn.	1
<input type="checkbox"/>	L7	5300154.pn.	1
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L6	dpnp	87
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L5	5300154.pn.	1
<input type="checkbox"/>	L4	5271773.pn.	1
<input type="checkbox"/>	L3	US-5876510-A.did.	1
<input type="checkbox"/>	L2	US-5876510-A.did.	1
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L1	1996wo-us02900	1

END OF SEARCH HISTORY

First Hit☐ **Generate Collection** **Print**

L2: Entry 1 of 70

File: PGPB

Sep 11, 2003

DOCUMENT-IDENTIFIER: US 20030168079 A1

TITLE: Cleaning agent, cleaning method and cleaning apparatus

Current US Classification, US Primary Class/Subclass:
134/11Current US Classification, US Secondary Class/Subclass:
134/105Current US Classification, US Secondary Class/Subclass:
134/110Current US Classification, US Secondary Class/Subclass:
134/13Current US Classification, US Secondary Class/Subclass:
134/26Current US Classification, US Secondary Class/Subclass:
134/30Summary of Invention Paragraph:

[0030] The 14th aspect of the present invention provides the cleaning agent having no flash point or the rinsing agent having no flash point according to the 9th aspect of the present invention, wherein the component (b1) comprises at least one selected from 3-methoxybutanol, 3-methyl-3-methoxybutanol, dipropylene glycol mono-n-propyl ether and dipropylene glycol mono-n-butyl ether.

Detail Description Paragraph:

[0107] With respect to the (b1) glycol ether monoalkyl ethers, specific examples of the hydrophilic glycol ether monoalkyl ethers are diethylene glycol monomethyl ether, diethylene glycol monoethyl ether, diethylene glycol mono n-propyl ether, diethylene glycol mono-i-propyl ether, diethylene glycol mono-n-butyl ether, propylene glycol monomethyl ether, dipropylene glycol monomethyl ether, tripropylene glycol monomethyl ether, 3-methoxybutanol and 3-methyl-3-methoxybutanol. Specific examples of the hydrophobic glycol ether monoalkyl ethers are ethylene glycol mono-n-hexyl ether, propylene glycol mono-n-butyl ether, dipropylene glycol mono-n-propyl ether and dipropylene glycol mono-n-butyl ether. Incidentally, dipropylene glycol mono-n-propyl ether and dipropylene glycol mono-n-butyl ether are superior in cleaning property to soil of amine hydrochlorides and organic acids, which cause an ionic residue in a flux cleaning, and soil of polymer rosin and rosin metal

salts, which are produced in a soldering step and cause a white residue.

Detail Description Paragraph:

[0114] As the glycol ethers used in the present invention, more preferred from a viewpoint of low toxicity are dipropylene glycol monomethyl ether, dipropylene glycol mono-n-propyl ether, dipropylene glycol mono-n-butyl ether, dipropylene glycol dimethyl ether, 3-methoxybutanol and 3-methyl-3-methoxybutanol, which produce no alkoxyacetic acid during metabolism in a human body.

Detail Description Paragraph:

[0118] As the glycol ether acetates used in the present invention, more preferred from a viewpoint of low toxicity are dipropylene glycol monomethyl ether acetate, dipropylene glycol mono-n-propyl ether acetate, dipropylene glycol mono-n-butyl ether acetate, 3-methoxybutyl acetate and 3-methyl-3-methoxybutyl acetate, which produce no alkoxyacetic acid during metabolism in a human body.

Detail Description Table CWU:

TABLE 2 Comparative Example Component (parts by weight)		1	2	3	4	5	6	7	8	9
10	11 12 Component a1	A mixture of methyl perfluorobutyl -- -- -- -- --								
--	-- 96 95 --	ether and methyl perfluoroisobutyl ether (commercial name of HFE7100, manufactured by Sumitomo 3M Limited) 4H,5H,5H-Perfluorocyclopentane -- -- -- -- --								
--	-- -- -- -- --	98 (commercial name, Zeorora H manufactured by Nippon Zeon Co., Ltd.) Component a2 Ethanol 100 -- -- -- -- --								
--	4 -- -- n-Propanol -- -- -- -- --	2 i-Propanol -- 100 -- -- -- -- --								
--	-- -- -- -- --	5 -- Component b 3-Methyl-3-methoxybutanol -- -- 100 -- -- -- -- --								
--	-- -- -- -- --	Diethylene glycol n-butyl ether -- -- -- 100 -- -- -- -- --								
--	-- -- -- -- --	Dipropylene glycol mono-n-propyl ether -- -- -- -- 100 -- -- -- -- --								
--	-- -- -- -- --	Diethylene glycol n-butyl ether -- -- -- -- -- 100 -- -- -- -- --								
--	-- -- Dipropylene glycol dimethyl ether -- -- -- -- --	100 -- -- -- -- --								
--	-- -- 3-Methyl-3-methoxybutyl acetate -- -- -- -- --	100 -- -- -- -- -- Butyl lactate -- -- -- -- --								
--	-- -- -- -- --	100 -- -- -- -- -- (1) Flash point X X X X X X X X X X X X X								

Detail Description Table CWU:

TABLE 3 Comparative Example Component (parts by weight)		23	24	25	26
27	28 29 30 31 32 33 34 35 36 37 38 39 13 14 15 Component a1	4H,5H,5H-Perfluorocyclopentane -- -- -- -- -- 60 60 70 -- -- -- 15 45 -- -- -- -- 100			
--	-- -- (commercial name, Zeorora H manufactured by Nippon Zeon Co., Ltd.) A mixture of methyl perfluorobutyl 60 50 60 60 -- -- -- 45 68 60 54 15 -- 50 50				
66	60 -- 100 -- ether and methyl perfluoroisobutyl ether (commercial name of HFE7100, manufactured by Sumitomo 3M Limited) 2H,3H-Perfluoropentane (commercial -- -- -- -- -- 60 -- -- -- -- -- 100 name of VERTREL XF, manufactured by Mitsui Dupont Fluorochemical) Component a2 Ethanol -- -- -- -- -- 2 -- 1 -- -- -- -- 4 4 -- -- -- Component b Component b1 Hydrophilic Diethylene glycol mono-n-butyl ether -- -- -- -- --				
--	10 -- -- -- -- 20 -- -- -- -- -- 3-Methyl-3-methoxybutanol 40 -- -- -- 20 -- -- -- 36 -- -- -- -- 30 20 -- -- -- -- Dipropylene glycol monomethyl ether -- 50 -- -- -- -- --				
--	-- Hydrophobic Diethylene glycol mono-n-propyl ether -- -- -- -- --				
15	-- 20 -- -- -- 16 -- -- -- -- Diethylene glycol mono-n-butyl ether -- -- -- -- --				
--	-- -- 20 -- -- 20 -- 10 -- -- -- 10 -- -- -- -- Component b2 hydrophilic Diethylene glycol di-n-butyl ether -- -- 40 -- -- -- 20 -- -- 25 -- --				

20 -- 20 -- -- -- -- -- Dipropylene glycol dimethyl ether -- -- -- -- --
 - 19 -- -- 20 -- -- -- -- 20 -- -- -- -- 3-Methyl-3-methoxybutyl acetate --
 -- -- -- -- -- -- -- -- -- -- 20 -- -- 10 -- -- Butyl lactate -- --
 -- 40 -- -- -- -- -- -- 10 -- -- -- -- Component c 2,6-Di-t-
 butyl-p-cresol -- -- -- -- -- -- 0.05 0.05 -- -- -- -- --
 - (2) Oil dissolution property .largecircle. .largecircle. .largecircle.
 .circleincircle. .largecircle. .circleincircle. .circleincircle.
 .circleincircle. .circleincircle. .circleincircle. .circleincircle.
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 .circleincircle. .circleincircle. X X X (3) Rosin dissolution
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 Flux dissolution property .largecircle. .largecircle. .largecircle.
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 .circleincircle. X X X

CLAIMS:

14. The cleaning agent having no flash point or the rinsing agent having no flash point according to claim 9, wherein the component (b1) contains at least one selected from 3-methoxybutanol, 3-methyl-3-methoxybutanol, dipropylene glycol mono-n-propyl ether and dipropylene glycol mono-n-butyl ether.

Hit List

Search Results - Record(s) 1 through 15 of 70 returned.

☐ 1. Document ID: US 20030168079 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 70

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030168079

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030168079 A1

TITLE: Cleaning agent, cleaning method and cleaning apparatus

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kabashima, Kazuo	Yokohama-shi		JP	
Kato, Kenichi	Kawasaki-shi		JP	
Matsumoto, Shoji	Tokyo		JP	

US-CL-CURRENT: 134/11; 134/105, 134/110, 134/13, 134/26, 134/30, 510/365,
510/407, 510/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC
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☐ 2. Document ID: US 20030102011 A1

L2: Entry 2 of 70

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030102011

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030102011 A1

TITLE: Method of removing material from an interior surface using core/shell particles

PUBLICATION-DATE: June 5, 2003

h e b b g e e e f e g e f b e

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smith, Dennis E.	Rochester	NY	US	
Puccini, Christopher J.	Rochester	NY	US	
Gruszczynski, David W.	Webster	NY	US	

US-CL-CURRENT: 134/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 3. Document ID: US 20030040456 A1

L2: Entry 3 of 70

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040456

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040456 A1

TITLE: Method and apparatus for cleaning article

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Imai, Tetsuo	Tokiyama-shi Yamaguchi		JP	
Nakashima, Masaaki	Tokuyama-shi Yamaguchi		JP	

US-CL-CURRENT: 510/417; 134/26, 134/61, 510/506

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 4. Document ID: US 20020189644 A1

L2: Entry 4 of 70

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020189644

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020189644 A1

TITLE: Method for the liquid cleaning of objects

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
------	------	-------	---------	---------

h e b b g e e e f e g e f b e

Wack, Oskar

Ingolstadt

DE

US-CL-CURRENT: 134/10; 134/26, 134/34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 5. Document ID: US 6569251 B1

L2: Entry 5 of 70

File: USPT

May 27, 2003

US-PAT-NO: 6569251

DOCUMENT-IDENTIFIER: US 6569251 B1

TITLE: Detergent for lithography

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takeda; Takashi	Ogasa-gun			JP

US-CL-CURRENT: 134/2; 257/E21.255, 510/108, 510/169, 510/171, 510/201,
510/407, 510/505

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 6. Document ID: US 6506261 B1

L2: Entry 6 of 70

File: USPT

Jan 14, 2003

US-PAT-NO: 6506261

DOCUMENT-IDENTIFIER: US 6506261 B1

TITLE: Detergent compositions for the removal of complex organic or greasy soils

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Man; Victor F.	St. Paul	MN		

US-CL-CURRENT: 134/39; 134/25.2, 510/222, 510/223, 510/225, 510/228, 510/229,
510/422, 510/424, 510/466, 510/506

h e b b g e e e f e g e f b e

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC
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☐ 7. Document ID: US 6495508 B1

L2: Entry 7 of 70

File: USPT

Dec 17, 2002

US-PAT-NO: 6495508

DOCUMENT-IDENTIFIER: US 6495508 B1

TITLE: Cleaning wipe

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leonard; Isabelle	Voroux-lez-Liers			BE
Dormal; Didier	Aywaille			BE
Julemont; Jean	Verviers			BE

US-CL-CURRENT: 510/438; 134/42, 15/209.1, 510/295, 510/439, 510/499, 510/505,
510/506

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC
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☐ 8. Document ID: US 6454876 B1

L2: Entry 8 of 70

File: USPT

Sep 24, 2002

US-PAT-NO: 6454876

DOCUMENT-IDENTIFIER: US 6454876 B1

TITLE: Method for eliminating malodors

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ochomogo; Maria G.	Danville	CA		
Adair; Martha J.	San Ramon	CA		
Ali; Sheila E.	San Ramon	CA		
Finn; Leslie E.	Pleasanton	CA		
Peterson; David	Pleasanton	CA		
Piche; Gregory M.	Dublin	CA		
Van Buskirk; Gregory	Danville	CA		

US-CL-CURRENT: 134/42; 252/8.91, 424/76.4, 510/276, 510/278, 510/279,
510/477, 8/137.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC
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☐ 9. Document ID: US 6436892 B1

L2: Entry 9 of 70

File: USPT

Aug 20, 2002

US-PAT-NO: 6436892

DOCUMENT-IDENTIFIER: US 6436892 B1

TITLE: Cleaning wipe comprising 2 bromo-2 nitropropane-1,3 diol

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leonard; Isabelle	Voroux-lez-Liers			BE
Dormal; Didier	Aywaille			BE
Julemont; Jean	Verviers			BE

US-CL-CURRENT: 510/438; 134/42, 15/209.1, 510/295, 510/439, 510/499, 510/505,
510/506

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC
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☐ 10. Document ID: US 6432897 B1

L2: Entry 10 of 70

File: USPT

Aug 13, 2002

US-PAT-NO: 6432897

DOCUMENT-IDENTIFIER: US 6432897 B1

TITLE: Reduced residue hard surface cleaner

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cable; Elizabeth A.	Livermore	CA		

US-CL-CURRENT: 510/182; 134/40, 510/365, 510/421, 510/424, 510/432, 510/506

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC
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☐ 11. Document ID: US 6423150 B1

L2: Entry 11 of 70

File: USPT

Jul 23, 2002

US-PAT-NO: 6423150

DOCUMENT-IDENTIFIER: US 6423150 B1

TITLE: Method for removing resin

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakayama; Yasuharu	Kanagawa			JP

US-CL-CURRENT: 134/10; 134/28, 134/3, 134/38, 430/281.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC
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☐ 12. Document ID: US 6399555 B2

L2: Entry 12 of 70

File: USPT

Jun 4, 2002

US-PAT-NO: 6399555

DOCUMENT-IDENTIFIER: US 6399555 B2

TITLE: Low odor, hard surface cleaner with enhanced soil removal

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robbins; Michael H.	Hilden			DE
Julian; Jennifer C.	Castro Valley	CA		
Thompson; Suzanne M.	Oakland	CA		
Robinson; Gary L.	Livermore	CA		
Choy; Clement K.	Alamo	CA		
Gossett; Elizabeth A.	Livermore	CA		

US-CL-CURRENT: 510/238; 134/40, 134/42, 510/191, 510/421, 510/422, 510/423,
510/424, 510/426, 510/427, 510/432, 510/434 , 510/499, 510/506

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	QMC
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☐ 13. Document ID: US 6340663 B1

L2: Entry 13 of 70

File: USPT

Jan 22, 2002

US-PAT-NO: 6340663

DOCUMENT-IDENTIFIER: US 6340663 B1

TITLE: Cleaning wipes

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deleo; Malcolm A.	Castro Valley	CA		
Blum; Robert L.	Clayton	CA		
Ochomogo; Maria G.	Danville	CA		
Pappalardo; Paul A.	Livermore	CA		
Swayne; Elizabeth N.	Livermore	CA		

US-CL-CURRENT: 510/438; 134/42, 510/108, 510/238, 510/439, 510/470, 510/475,
510/477

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	QMC
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☐ 14. Document ID: US 6315835 B1

L2: Entry 14 of 70

File: USPT

Nov 13, 2001

US-PAT-NO: 6315835

DOCUMENT-IDENTIFIER: US 6315835 B1

TITLE: Anti-spotting and anti-filming hard surface cleaning formulations and methods

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerobo; Charles O.	Southfield	MI		
Welch; Michael C.	Woodhaven	MI		
Holland; Richard J.	Flanders	NJ		
Patterson; Sonia J.	Detroit	MI		

Gessner; Suzanne M.

Ypsilanti

MI

US-CL-CURRENT: 134/3; 134/2, 134/22.19, 134/26, 134/34, 134/36, 134/41,
134/42, 510/108, 510/180, 510/238, 510/245, 510/254, 510/434, 510/475,
510/477

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC
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☐ 15. Document ID: US 6309471 B1

L2: Entry 15 of 70

File: USPT

Oct 30, 2001

US-PAT-NO: 6309471

DOCUMENT-IDENTIFIER: US 6309471 B1

**** See image for Certificate of Correction ****

TITLE: Rapid removal of iodine stains

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Kim R.	Woodbury	MN		
Hei; Robert D. P.	Baldwin	WI		
Levitt; Mark	St. Paul	MN		

US-CL-CURRENT: 134/28; 134/2, 134/3, 134/36, 134/41, 134/42, 510/109,
510/214, 510/238, 510/278, 510/281, 510/405

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC
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Bkwd Refs

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Term	Documents
134/\$	0
134/00	4
134/1	2259
134/10	1341
"134/100.1"	347
"134/102.1"	790

"134/102.2"	284
"134/102.3"	167
"134/103.1"	385
"134/103.2"	492
"134/103.3"	89
(L1 AND 134/ \$.CCLS.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	70

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